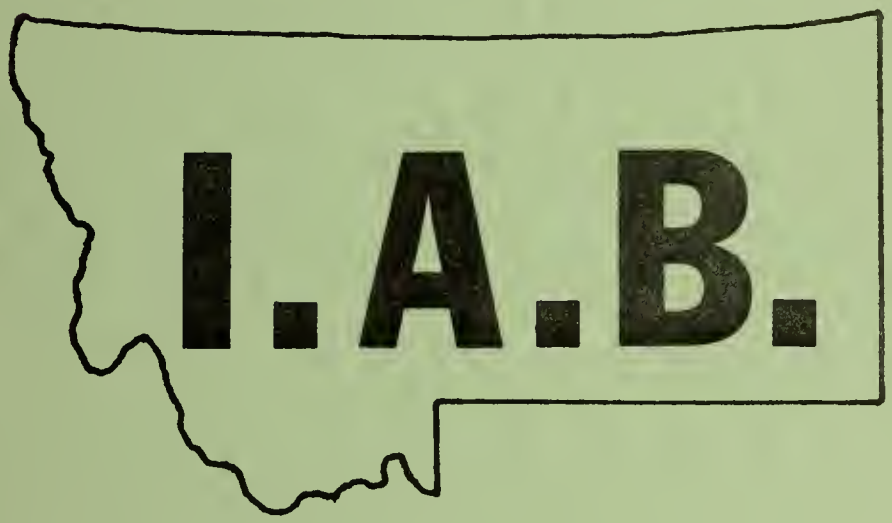
S
368.41
I2W
1969
c.1

STATE DOCUMENTS

FEB 16 1970

# WORK INJURIES IN MONTANA

# 7·1·68 – 6·30·69




SERVING MONTANA EMPLOYERS

& EMPLOYEES SINCE 1915

# 54TH YEAR

Montana State Library
3 0864 1005 1882 1

Honorable Forrest H. Anderson
Governor

Dear Governor Anderson:

Pursuant to Section 92-842, Revised Codes of Montana, 1947, we are transmitting herewith the fifty-fourth annual report of the Industrial Accident Board.

Very truly yours,

/s/ J. J. Carden
Chairman

/s/ Jack C. Carver
Commissioner

ATTEST:

/s/ Margaret Condon
Secretary

Digitized by the Internet Archive
in 2011 with funding from
Montana State Library

http://www.archive.org/details/workinjuries19681969mont

CONTENTS

Letter of Transmittal

General Summary Page 1

Department of Safety 29

LIST OF TABLES


| TABLE NO. | TITLE | PAGE |
|---|---|---|
| Table 1 | Comparative Summary of Activity (Plan I) | 1 |
| 2 | Comparative Summary of Activity (Plan II) | 2 |
| 3 | Comparative Summary of Activity (Plan III) | 2 |
| 4 | Operational Cost | 3 |
| 5 | Disputed Claims by Plan | 6 |
| 6 | Disabling Injuries per 1,000 Workers | 7 |
| 7 | Fatalities by Industry | 9 |
| 8 | Cause of Death by Major Industry | 10 |
| 9 | Disabling and Non-Disabling Injuries | 12 |
| 10 | Deaths and Death Rates | 12 |
| 11 | Work Injury Experience in Montana | 13 |
| 12 | Accident Type by Major Industry | 17 |
| 13 | Agency by Major Industry | 18 |
| 14 | Nature of Injury by Major Industry | 19 |
| 15 | Body Location by Major Industry | 20 |
| 16 | Nature of Injury by Body Location | 21 |
| 17 | Agency by Accident Type | 22 |
| 18 | Sex and Marital Status by Age Group | 23 |
| 19 | Age and Industry Division | 24 |
| 20 | Distribution of Weekly Wages | 26 |
| 21 | Work Injuries by County | 27 |

## LIST OF CHARTS


| CHART NO. | TITLE | PAGE |
|---|---|---|
| Chart 1 | Disabling Injuries per 1,000 Employees | 15 |
| 2 | Reported Work Injuries by Body Location | 16 |
| 3 | Distribution of Weekly Wages | 25 |

The activities of the Montana Industrial Accident Board during the 54th year are set forth in the following summary with the aid of statistical tables wherever it is felt necessary for the purpose of clarification.

Members of the Board are J. J. Carden, Chairman; Sidney T. Smith, Commissioner of Labor and Industry and ex-officio member of the Board; and Jack C. Carver, Director of the Division of Vocational Rehabilitation and ex-officio member of the Board.

The duties of the Industrial Accident Board are the administration of the Montana Workmen's Compensation Act, the administration of the Montana Occupational Disease Law, the administration of the Silicosis Benefit Program and the Volunteer Firemen's Compensation Act.

PLAN I

Table 1 reflects the experience of the self-insured employers enrolled under Plan I of the Workmen's Compensation Act during the 54th year.

Table 1

Plan I

COMPARATIVE SUMMARY OF ACTIVITY
53rd Year - 54th Year

| | 1967 - 1968 | 1968 - 1969 |
|---|---|---|
| Number of employers enrolled | 66 | 65 |
| Gross annual payroll | $129,994,615.12 | $137,708,162.74 |
| Number of work injuries reported | 2,957 | 3,192 |
| Number of claims filed | 396 | 614 |
| Occupational disease cases reported | 5 | 3 |
| Compensation benefits paid | $ 897,600.72 | $ 936,011.83 |
| Hospital, medical & burial benefits paid | $ 469,811.46 | $ 511,460.32 |
| Second injury fund contributions | -0- | -0- |
| Plan I administrative assessments | $ 30,810.65 | $ 39,432.84 |

PLAN II

Table 2 summarizes the experience of employers enrolled under Plan II of the Workmen's Compensation Act during the 54th year.

Table 2

Plan II

COMPARATIVE SUMMARY OF ACTIVITY
53rd Year - 54th Year

| | 1967 - 1968 | 1968 - 1969 |
|---|---|---|
| Number of employers enrolled | 6,793 | 7,071 |
| Gross annual premium | $4,720,657.15*[1] | $5,506,550.77*[2] |
| Number of work injuries reported | 10,839 | 10,643 |
| Number of claims filed | 1,894 | 1,853 |
| Occupational disease cases reported | 1 | 66 |
| Compensation benefits paid | $1,723,722.46 | $1,755,514.33 |
| Hospital, medical & burial benefits paid | $1,125,685.78 | $1,060,236.53 |
| Second injury fund contributions | $ 1,500.00 | $ 1,500.00 |
| Plan II administrative assessments | $ 152,932.16 | $ 147,253.79 |

*[1] For calendar year 1967

*[2] For calendar year 1968

PLAN III

Table 3 reflects the experience of employers enrolled under Plan III of the Workmen's Compensation Act during the 54th year.

Table 3

Plan III

COMPARATIVE SUMMARY OF ACTIVITY

53rd Year - 54th Year

| | 1967 - 1968 | 1968 - 1969 |
|---|---|---|
| Number of employers enrolled | 7,986 | 8,031 |
| Paid premium | $5,671,148.42 | $6,283,188.21 |
| Number of work injuries reported | 9,003 | 9,360 |
| Number of claims filed | 1,844 | 2,005 |
| Occupational disease cases reported | 1 | 0 |
| Compensation benefits paid | $2,901,295.94 | $3,453,954.65 |
| Hospital, medical & burial benefits paid | $1,315,280.87 | $1,336,818.09 |
| Second injury fund contributions | $ 2,500.00 | $ 2,500.00 |
| Plan III administrative assessments | $ 352,944.32 | $ 421,438.84 |

## INDUSTRIAL ACCIDENT BOARD ADMINISTRATION ACCOUNT
## INCOME AND DISBURSEMENTS

The Industrial Accident Board spent a total of $643,577.60 for the administration of the Workmen's Compensation Act during the 54th year of the Act's existence. This is an increase of $55,698.49 over the cost of the 53rd year.

The cost of the administration of the Act is borne by the assessment of self-insured employers, insurance carriers, and the Industrial Insurance Fund.

Income for the Administrative Fund for the 54th year:

| | |
|---|---|
| Plan I | $ 27,779.75 |
| Plan II | 176,477.47 |
| Plan III | 375,000.00 |
| Boiler Inspection | 20,153.11 |
| Occupational Disease Filing Fee | 3,588.50 |
| Refunds | 469.11 |
| Adjustment | 23.00 |
| | $ 603,490.94 |
| Balance - June 30, 1968 | 84,743.58 |
| TOTAL | $ 688,234.52 |

Disbursements necessary to administer the Workmen's Compensation Act are charged to the Plan causing the disbursements. Disbursements by Plan for the 54th year were as follows:

| | |
|---|---|
| Plan I | $ 39,432.84 |
| Plan II | 147,253.79 |
| Plan III | 421,438.84 |
| Boiler Inspection | 29,619.92 |
| Occupational Disease | 5,832.21 |
| TOTAL | $ 643,577.60 |
| Balance - June 30, 1969 | $ 44,656.92 |

* * * * * * *

Table 4

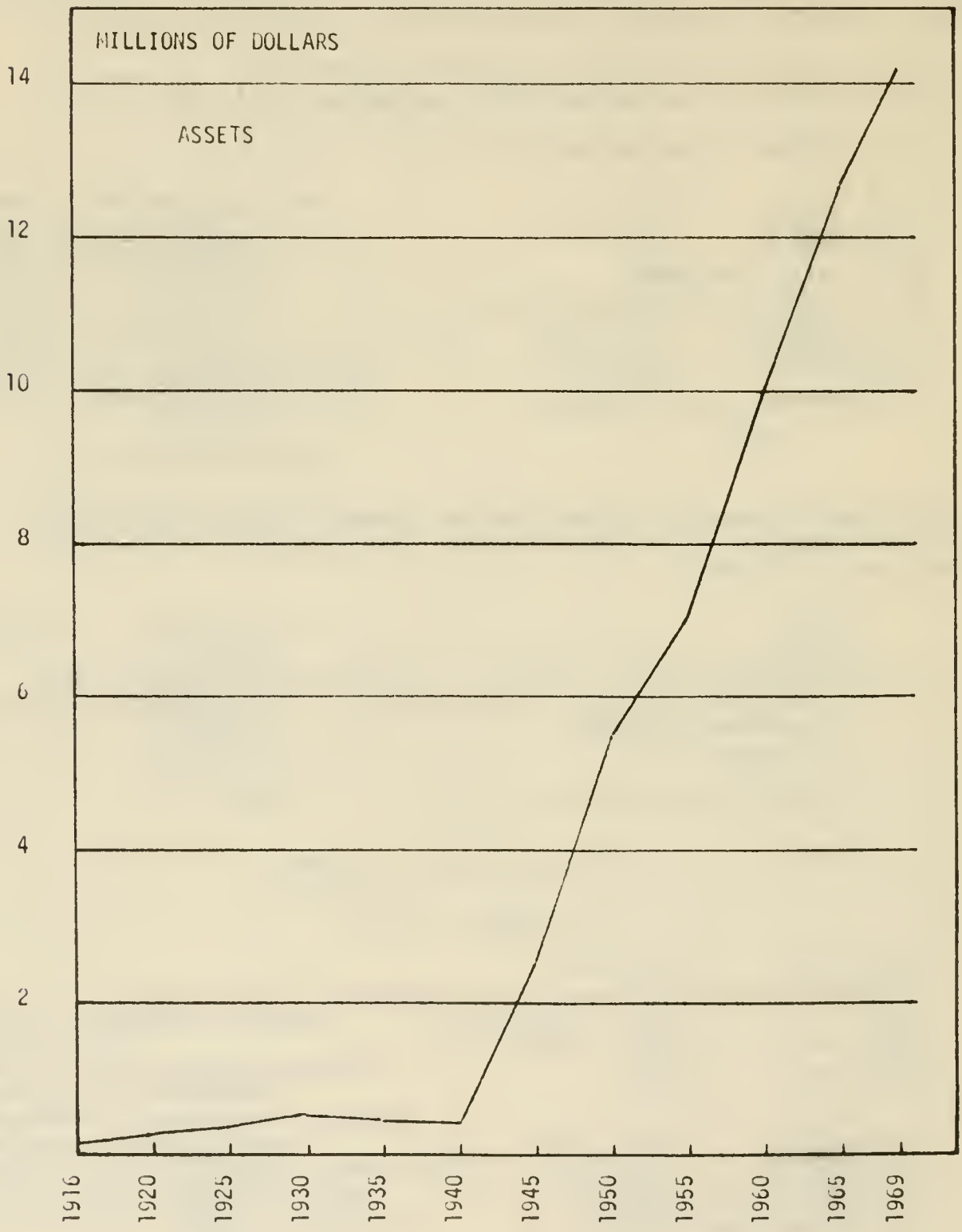
### PROPORTIONATE COST OF OPERATING THE INDUSTRIAL ACCIDENT BOARD
### (% By Plan)

| Plan | Percentage |
|---|---|
| Plan I | 6.13% |
| Plan II | 22.88% |
| Plan III | 65.48% |
| Boiler Inspection | 4.60% |
| Occupational Disease | .91% |
| | 100.00% |
| Increase in cost of 1968 fiscal year | 8.65% |

## STATE FUND GROWTH SINCE 1916

Growth in assets of the State Fund is essential to insure that the injured workmen in Montana industry are provided financial protection in the event of industrial injury. The increase in State Fund assets is a reflection of our State's continued economic growth, and as of June 30, 1969, reached a high of $14,110,968.

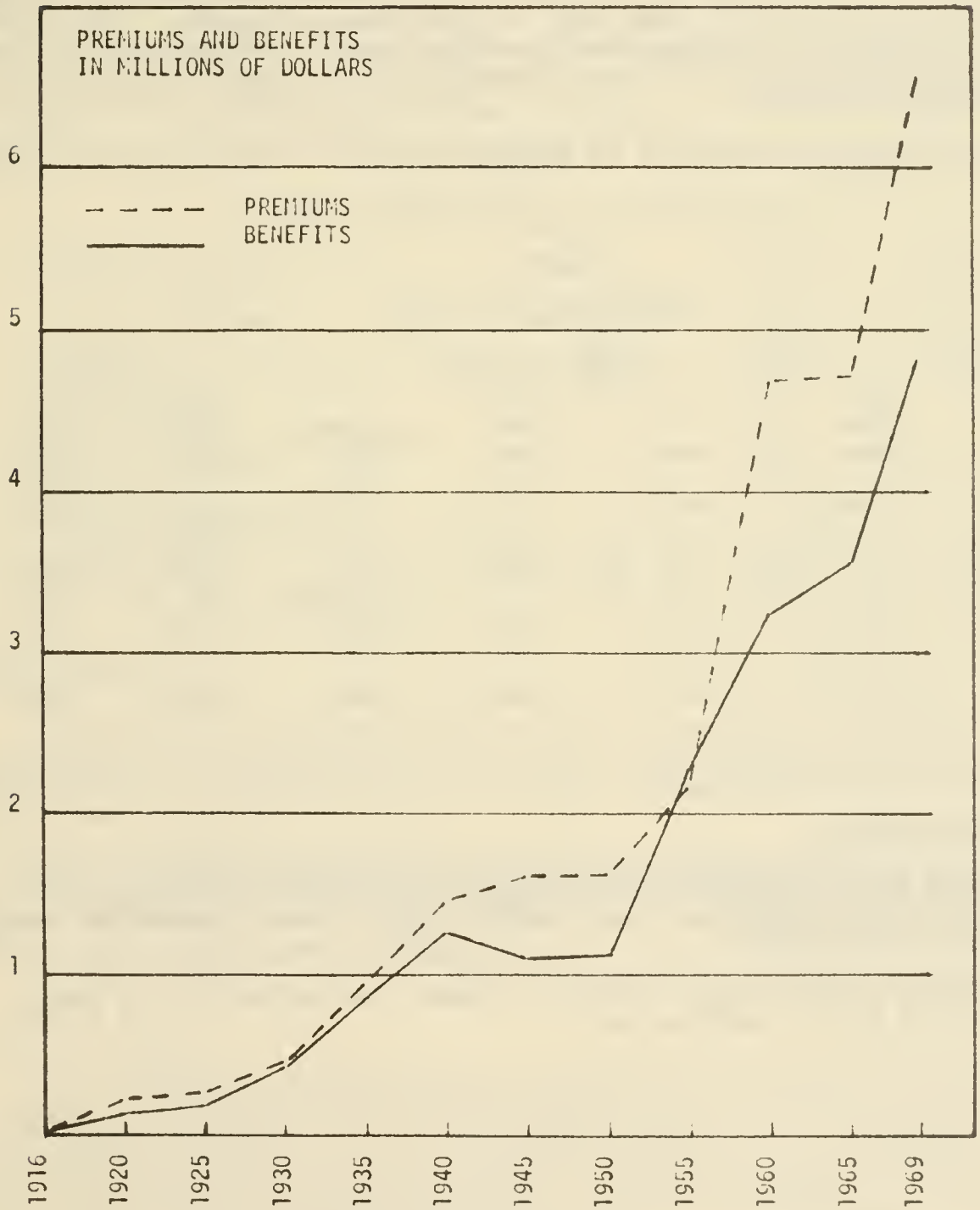
14.5 STATE FUND GROWTH



## PREMIUM INCOME AND BENEFITS

Premium income growth has been substantial since the 1950's keeping pace with the periodic increases in compensation benefits and the expanding economy.

STATE FUND GROWTH



## CLAIMS

The claims department processed 9,360 work injuries and 2,005 claims under Plan III during the 54th fiscal year. This is an increase of 4% in work injuries reported and a 8.7% increase in the number of claims filed.

## HEARINGS AND ADJUDICATIONS

A total of 4,472 claims for lost time were filed during the past year. There was a total of 395 disputed claims under all three plans of coverage. The disputes involved disability in the large majority of these cases. The disputed cases were placed on the Board's docket and were disposed of either through formal hearings and/or agreed settlements.

The following table reflects the hearings activity by Plan for the past three years:

Table 5

DISPUTED CLAIMS BY PLAN

7-1-66 - 6-30-69

| Plan | 52nd Year | % of Total | 53rd Year | % of Total | 54th Year | % of Total |
|---|---|---|---|---|---|---|
| I | 95 | 24% | 74 | 19% | 50 | 13% |
| II | 217 | 55% | 225 | 57% | 293 | 74% |
| III | 80 | 21% | 94 | 24% | 52 | 13% |
| Total | 392 | 100% | 393 | 100% | 395 | 100% |

## OCCUPATIONAL DISEASE

A total of 69 occupational disease cases were reported by employers under the Occupational Disease Act. Plan I reported 3 cases; Plan II reported 66 cases; and Plan III reported none.

The disease reported was silicosis in 3 cases, lead poisoning in 65 cases, and dermatitis for the remaining case.

## WORK INJURY RATE

Montana's overall work injury rate, all nonagricultural industry combined, based on the number of disabling injuries per 1,000 workers, decreased by .7 from 34.7 per 1,000 workers, to 34.0 per 1,000 workers.

Five industry divisions, mining, construction, manufacturing, trade and service all experienced a lower disabling injury rate during the 54th year. However, a portion of this decrease can be attributed to a drop-off of employment in the construction trades.

The remaining three industry divisions, transportation, communications and utilities, finance, insurance and real estate, state and local government, all experienced increases ranging from .7 to 1.3.

Table 6

DISABLING WORK INJURIES PER 1,000 WORKERS

| Industry Division | 1967-68 | 1968-69 | Change |
|---|---|---|---|
| All Industry | 34.7 | 34.0 | - .7 |
| Mining | 99.5 | 88.5 | -11.0 |
| Construction | 90.7 | 82.5 | - 8.2 |
| Manufacturing | 93.0 | 88.7 | - 4.3 |
| Transportation, Communications, and Utilities | 21.3 | 22.3 | + 1.0 |
| Trade | 28.0 | 26.9 | - 1.1 |
| Finance, Insurance and Real Estate | 3.1 | 4.4 | + 1.3 |
| Service | 16.5 | 14.5 | - 2.0 |
| State and Local Government | 12.8 | 13.5 | + .7 |

## WORK FATALITIES

The number of compensable fatalities decreased from 51 in 1967-1968 to 45 in 1968-1969. Four industry divisions, mining, construction, manufacturing and transportation, communications and utilities, accounted for 82.2% of the fatalities experienced during the 54th year.

The work fatality rate for the 1968-1969 period for all industries combined was 2.3 deaths per 10,000 employees compared to 2.7 deaths per 10,000 employees during the 1967-1968 period. The 5-year average death rate per 10,000 employees, July 1, 1963 through June 30, 1968, is 3.1.

## NATURE OF INJURY

With reference to the basic injury inflicted upon the worker in industry relative to frequency, we find that strains, sprains and dislocations moved from second place last year to first in frequency, accounting for 25.9% of the total. Cuts, lacerations and punctures follow closely behind with 25.2% of the total. Bruises and contusions, and foreign bodies in the eye accounted for 16.6% and 8.0%, respectively. These four categories, of the twelve considered, accounted for 75.7% of the total reportable work injuries.

NATURE OF INJURY (continued)

Injuries to the upper extremities (arms, hands and fingers) were the most frequent, accounting for 8,067, or 34.8% of the total.

Injuries to the back and trunk were second in frequency, with 5,440 reportable injuries for 23.5% of the total.

The trend relative to nature of injury by body location remains relatively unchanged from the preceding year.

AGENCY

Hand tools again led all agencies as the agency responsible for the greatest number of work injuries reported, with 18.7% of the total chargeable work injuries.

Working surfaces, as an agency, was the next in line, accounting for 3,911 or 16.9% of the total.

Trees, logs and lumber, as an agency, complete our infamous trio of high ranking agencies, with 8.3% of the total.

Taken collectively, the three most common agencies mentioned accounted for approximately 44% of all injuries reported.

ACCIDENT TYPE

The accident type classification identifies the event which directly resulted in the injury. The experience relative to accident type was very similar to last year. Struck by or striking against objects, machines or equipment was still the most common classification, with 9,851, or 42.5% of the total. Falls and slips were second, with 4,112 or 17.7% of the total. Strain or overexertion, as a causal factor, still retained third ranking with 3,617 or 15.6% of the total. The three classifications combined account for approximately 75.8% of the total number of reportable work injuries.

AGE AND SEX OF INJURED WORKERS

Women employees who suffer injuries are older, on the average, than men injured at work. The median age for injured women is 41.9 years compared with 36.1 years for men during the 54th year.

During the 54th year, 12.9% of all job injuries were sustained by women employees, an increase of 1.2% over the 53rd year.

STATISTICAL SUMMARY

Statistical tables covering the 54th year experience will be found on the following pages.

Table 7

FATALITIES* BY INDUSTRY

July 1, 1968 - June 30, 1969

| INDUSTRY | PLAN I | PLAN II | PLAN III | TOTAL |
|---|---|---|---|---|
| AGRICULTURE & AGRICULTURAL SERVICES | 0 | 1 | 1 | 2 |
| Agricultural Services | | | 1 | 1 |
| Animal Husbandry | | 1 | | 1 |
| MINERAL EXTRACTION | 5 | 4 | 2 | 11 |
| Copper Ores | 3 | | | 3 |
| Chemical & Fertilizer Mineral Mining | 2 | | | 2 |
| Crude Petroleum & Natural Gas | | 1 | | 1 |
| Oil & Gas Field Services | | 2 | | 2 |
| Non-Metallic Mineral Services | | | 1 | 1 |
| Bituminous Coal | | | 1 | 1 |
| Gold & Silver Mining | | 1 | | 1 |
| CONTRACT CONSTRUCTION | 0 | 3 | 9 | 12 |
| Highway & Street Construction | | | 5 | 5 |
| Heavy Construction (except Highway & Street) | | 2 | 2 | 4 |
| Misc. Special Trade Contractors | | 1 | | 1 |
| Electrical Work | | | 1 | 1 |
| General Building Contractors | | | 1 | 1 |
| MANUFACTURING | 2 | 7 | 1 | 10 |
| Logging Camps & Logging Contractors | 2 | 5 | 1 | 8 |
| Industrial Chemicals | | 1 | | 1 |
| Paper Manufacturing | | 1 | | 1 |
| TRANSPORTATION, COMMUNICATIONS & UTILITIES | 0 | 1 | 3 | 4 |
| Air Transport, non-certified carriers | | | 2 | 2 |
| Trucking, local and long distance | | 1 | 1 | 2 |
| TRADE | 2 | 0 | 0 | 2 |
| Petroleum Wholesaler | 2 | | | 2 |
| FINANCE, INSURANCE & REAL ESTATE | 0 | 0 | 0 | 0 |
| SERVICE | 0 | 0 | 1 | 1 |
| Non-Profit Membership Organization | | | 1 | 1 |
| GOVERNMENT | 0 | 0 | 3 | 3 |
| State | | | | |
| Department of Education | | | 1 | 1 |
| Department of Public Works | | | 1 | 1 |
| Local | | | | |
| Road, Street, Public Works | | | 1 | 1 |
| TOTALS | 9 | 16 | 20 | 45 |

*Deaths for which findings and awards have been issued by the Industrial Accident Board.

Table 8

CAUSE OF DEATH BY MAJOR INDUSTRY

July 1, 1968 - June 30, 1969

| INDUSTRY | PLAN I | PLAN II | PLAN III | TOTAL |
|---|---|---|---|---|
| AGRICULTURE | 0 | 1 | 1 | 2 |
| Plane Crash | | | 1 | |
| Thrown from moving vehicle | | 1 | | |
| MINERAL EXTRACTION | 5 | 4 | 2 | 11 |
| Fall from Elevation | 1 | | | |
| Crane Overturned | 1 | | | |
| Heart Failure | | 1 | 1 | |
| Explosion | 1 | | | |
| Asphyxiation | | 1 | | |
| Struck by falling object | 2 | | | |
| Automobile Collision | | 2 | | |
| Caught between frame & truck box | | | 1 | |
| CONTRACT CONSTRUCTION | 0 | 3 | 9 | 12 |
| Vehicle Train Collision | | | 2 | |
| Electrocution | | 2 | 2 | |
| Truck left roadway | | | 1 | |
| Front-end Loader overturned | | | 1 | |
| Heart Failure | | | 1 | |
| Struck by falling object | | | 1 | |
| Caught between pug-mill & ground | | | 1 | |
| Struck by cat-loader | | 1 | | |
| MANUFACTURING | 2 | 7 | 1 | 10 |
| Fall from Truck | | 1 | | |
| Asphyxiation | | 1 | | |
| Thrown from moving vehicle | | 1 | | |
| Struck by falling tree | | 2 | 1 | |
| Caught between tractor & tractor | 1 | | | |
| Struck by falling object | | 1 | | |
| Struck by flying object | 1 | | | |
| TRANSPORTATION, COMMUNICATION & UTILITIES | 0 | 1 | 3 | 4 |
| Plane crash | | | 2 | |
| Truck left roadway | | 1 | | |
| Explosion & fire | | | 1 | |
| TRADE | 2 | 0 | 0 | 2 |
| Vehicle struck by train | 1 | | | |
| Thrown from truck | 1 | | | |
| FINANCE, INSURANCE & REAL ESTATE | 0 | 0 | 0 | 0 |
| SERVICE | 0 | 0 | 1 | 1 |
| Automobile left roadway | | | 1 | |

(continued)

Table 8

CAUSE OF DEATH BY MAJOR INDUSTRY (continued)

| INDUSTRY | PLAN I | PLAN II | PLAN III | TOTAL |
|---|---|---|---|---|
| GOVERNMENT | 0 | 0 | 3 | 3 |
| State | | | | |
| Electrocution | | | 1 | |
| Heart Failure | | | 1 | |
| Local | | | | |
| Struck by tractor | | | 1 | |
| TOTALS | 9 | 16 | 20 | 45 |

Table 9

DISABLING AND NON-DISABLING INJURIES

July 1, 1959 through June 30, 1969

| YEAR | TOTAL INJURIES | DISABLING | PER CENT OF TOTAL | NON-DISABLING | PER CENT OF TOTAL | UNDETER-MINED | PER CENT OF TOTAL |
|---|---|---|---|---|---|---|---|
| 1959 - 1960 | 20,308 | 6,779 | 33.4 | 13,249 | 65.2 | 280 | 1.4 |
| 1960 - 1961 | 19,869 | 6,264 | 31.5 | 13,306 | 67.0 | 299 | 1.5 |
| 1961 - 1962 | 20,153 | 5,987 | 29.7 | 13,722 | 68.1 | 444 | 2.2 |
| 1962 - 1963 | 21,005 | 5,968 | 28.4 | 14,672 | 70.0 | 365 | 1.6 |
| 1963 - 1964 | 21,393 | 6,202 | 29.0 | 14,744 | 68.9 | 447 | 2.1 |
| 1964 - 1965 | 22,032 | 6,227 | 28.3 | 15,324 | 69.5 | 481 | 2.2 |
| 1965 - 1966 | 22,949 | 6,178 | 27.0 | 16,233 | 70.7 | 538 | 2.3 |
| 1966 - 1967 | 22,767 | 6,329 | 27.8 | 15,880 | 69.8 | 558 | 2.5 |
| 1967 - 1968 | 22,799 | 6,590 | 28.9 | 15,491 | 68.0 | 718 | 3.2 |
| 1968 - 1969 | 23,195 | 6,661 | 28.7 | 15,826 | 68.2 | 708 | 3.1 |

Table 10

DEATHS AND DEATH RATES

July 1, 1949 through June 30, 1969

| YEAR | DEATHS | WORKERS* (thousands) | DEATHS PER 10,000 WORKERS |
|---|---|---|---|
| 1949 - 1950 | 76 | 148 | 5.0 |
| 1950 - 1951 | 95 | 149 | 6.4 |
| 1951 - 1952 | 81 | 153 | 5.3 |
| 1952 - 1953 | 73 | 154 | 4.7 |
| 1953 - 1954 | 68 | 155 | 4.4 |
| 1954 - 1955 | 87 | 160 | 5.4 |
| 1955 - 1956 | 77 | 167 | 4.6 |
| 1956 - 1957 | 85 | 167 | 5.1 |
| 1957 - 1958 | 61 | 162 | 3.7 |
| 1958 - 1959 | 59 | 165 | 3.6 |
| 1959 - 1960 | 68 | 167 | 4.1 |
| 1960 - 1961 | 49 | 169 | 2.9 |
| 1961 - 1962 | 53 | 171 | 3.1 |
| 1962 - 1963 | 51 | 174 | 2.9 |
| 1963 - 1964 | 59 | 175 | 3.4 |
| 1964 - 1965 | 65 | 178 | 3.7 |
| 1965 - 1966 | 47 | 183 | 2.6 |
| 1966 - 1967 | 56 | 187 | 3.0 |
| 1967 - 1968 | 51 | 190 | 2.7 |
| 1968 - 1969 | 45 | 196 | 2.3 |

*Number of workers in non-agricultural industries in Montana.

Source: Monthly Review of Montana Labor Market, Montana State Employment Service, Division of Employment Security Commission.

Table 11

WORK INJURY EXPERIENCE IN MONTANA
July 15, 1915 through June 30, 1969

| YEAR | TOTAL NO. OF ACCIDENTS | PLAN I | PLAN II | PLAN III | FATALS | NO. OF ACCIDENTS FOR EACH 1,000 WORKERS |
|---|---|---|---|---|---|---|
| 1915 - 1916 | 6,802 | 4,391 | 2,236 | 175 | 136 | |
| 1916 - 1917 | 8,325 | 5,412 | 2,386 | 527 | 307 | |
| 1917 - 1918 | 5,820 | 3,668 | 1,483 | 669 | 123 | |
| 1918 - 1919 | 5,474 | 4,164 | 664 | 646 | 122 | |
| 1919 - 1920 | 4,914 | 3,164 | 741 | 1,009 | 94 | 38 |
| 1920 - 1921 | 3,858 | 1,939 | 854 | 1,065 | 83 | |
| 1921 - 1922 | 3,368 | 1,591 | 805 | 972 | 51 | |
| 1922 - 1923 | 5,129 | 2,875 | 1,024 | 1,230 | 81 | |
| 1923 - 1924 | 5,789 | 3,017 | 1,353 | 1,419 | 87 | |
| 1924 - 1925 | 5,816 | 3,280 | 1,257 | 1,279 | 79 | |
| 1925 - 1926 | 6,804 | 3,715 | 1,548 | 1,541 | 78 | |
| 1926 - 1927 | 6,879 | 3,611 | 1,725 | 1,543 | 93 | |
| 1927 - 1928 | 7,018 | 2,988 | 1,985 | 2,045 | 85 | |
| 1928 - 1929 | 8,364 | 3,359 | 2,383 | 2,622 | 89 | |
| 1929 - 1930 | 8,895 | 2,839 | 2,702 | 3,354 | 94 | 65 |
| 1930 - 1931 | 6,868 | ---- | NOT AVAILABLE | ---- | 55 | |
| 1931 - 1932 | 6,446 | 1,253 | 2,319 | 2,874 | 56 | |
| 1932 - 1933 | 5,482 | 489 | 1,715 | 3,278 | 31 | |
| 1933 - 1934 | 7,036 | 899 | 1,572 | 4,565 | 49 | |
| 1934 - 1935 | 10,630 | 838 | 2,454 | 7,338 | 65 | |
| 1935 - 1936 | 11,904 | 1,674 | 2,489 | 7,741 | 93 | |
| 1936 - 1937 | 12,685 | 2,262 | 2,035 | 8,388 | 103 | |
| 1937 - 1938 | 11,767 | 2,237 | 2,065 | 7,465 | 90 | |
| 1938 - 1939 | 10,176 | 1,282 | 2,131 | 6,763 | 63 | |
| 1939 - 1940 | 11,557 | 1,642 | 1,944 | 7,971 | 70 | 78 |
| 1940 - 1941 | 12,547 | 1,771 | 2,383 | 8,393 | 73 | |
| 1941 - 1942 | 13,258 | 2,348 | 2,492 | 8,418 | 108 | |
| 1942 - 1943 | 12,650 | 2,121 | 3,498 | 7,031 | 152 | |
| 1943 - 1944 | 11,127 | 1,820 | 3,158 | 6,149 | 97 | |
| 1944 - 1945 | 10,829 | 1,536 | 3,377 | 4,765 | 56 | |
| 1945 - 1946 | 10,196 | 1,139 | 3,266 | 5,791 | 44 | |
| 1946 - 1947 | 13,583 | 1,517 | 4,582 | 7,484 | 68 | 99 |
| 1947 - 1948 | 15,677 | 1,850 | 5,588 | 8,239 | 46 | 109 |
| 1948 - 1949 | 16,783 | 1,752 | 7,016 | 8,015 | 83 | 116 |
| 1949 - 1950 | 16,600 | 1,749 | 7,115 | 7,736 | 76 | 112 |
| 1950 - 1951 | 18,227 | 1,976 | 8,387 | 7,964 | 95 | 122 |
| 1951 - 1952 | 18,987 | 2,020 | 9,015 | 7,952 | 81 | 124 |
| 1952 - 1953 | 19,497 | 1,968 | 8,718 | 8,811 | 73 | 126 |
| 1953 - 1954 | 18,859 | 1,978 | 7,881 | 9,000 | 68 | 121 |
| 1954 - 1955 | 19,362 | 1,692 | 7,682 | 9,988 | 87 | 121 |
| 1955 - 1956 | 20,852 | 2,022 | 7,818 | 11,012 | 77 | 125 |
| 1956 - 1957 | 21,026 | 2,066 | 7,242 | 11,718 | 85 | 125 |
| 1957 - 1958 | 18,862 | 1,933 | 6,540 | 10,389 | 61 | 115 |
| 1958 - 1959 | 19,509 | 2,033 | 7,162 | 10,314 | 59 | 118 |
| 1959 - 1960 | 20,308 | 2,179 | 7,934 | 10,195 | 68 | 122 |
| 1960 - 1961 | 19,869 | 2,042 | 8,106 | 9,721 | 49 | 120 |

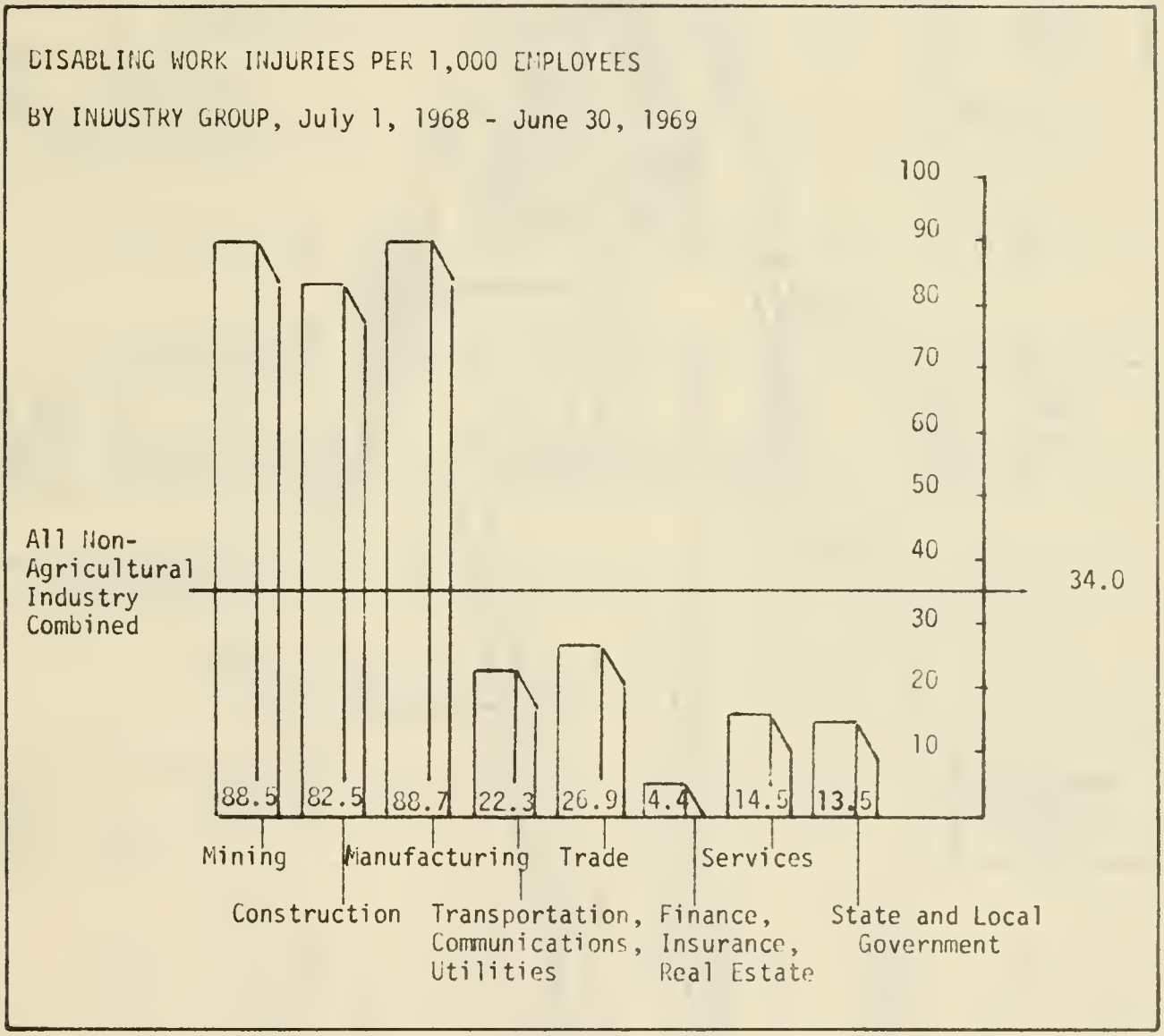
(continued)

Table 11

WORK INJURY EXPERIENCE IN MONTANA (continued)

| YEAR | TOTAL NO. OF ACCIDENTS | PLAN I | PLAN II | PLAN III | FATALS | NO. OF ACCIDENTS FOR EACH 1,000 WORKERS |
|---|---|---|---|---|---|---|
| 1961 - 1962 | 20,153 | 2,430 | 9,113 | 8,610 | 53 | 117 |
| 1962 - 1963 | 21,005 | 2,117 | 10,460 | 8,460 | 51 | 120 |
| 1963 - 1964 | 21,393 | 2,306 | 10,246 | 8,841 | 59 | 122 |
| 1964 - 1965 | 22,032 | 2,797 | 10,205 | 9,030 | 65 | 125 |
| 1965 - 1966 | 22,949 | 3,148 | 10,293 | 9,508 | 47 | 125 |
| 1966 - 1967 | 22,767 | 3,075 | 10,549 | 9,143 | 56 | 122 |
| 1967 - 1968 | 22,799 | 2,957 | 10,839 | 9,003 | 51 | 120 |
| 1968 - 1969 | 23,195 | 3,192 | 10,643 | 9,360 | 45 | 118 |

Chart 1


DISABLING WORK INJURIES PER 1,000 EMPLOYEES
BY INDUSTRY GROUP, July 1, 1968 - June 30, 1969
100
90
80
70
60
50
40
30
20
10
All Non-Agricultural Industry Combined
34.0
88.5
82.5
88.7
22.3
26.9
4.4
14.5
13.5
Mining
Construction
Manufacturing
Transportation, Communications, Utilities
Trade
Finance, Insurance, Real Estate
Services
State and Local Government

REPORTED WORK INJURIES
BY BODY LOCATION
ALL INDUSTRIES

July 1, 1968 - June 30, 1969
(Per Cent of Total)

Chart 2

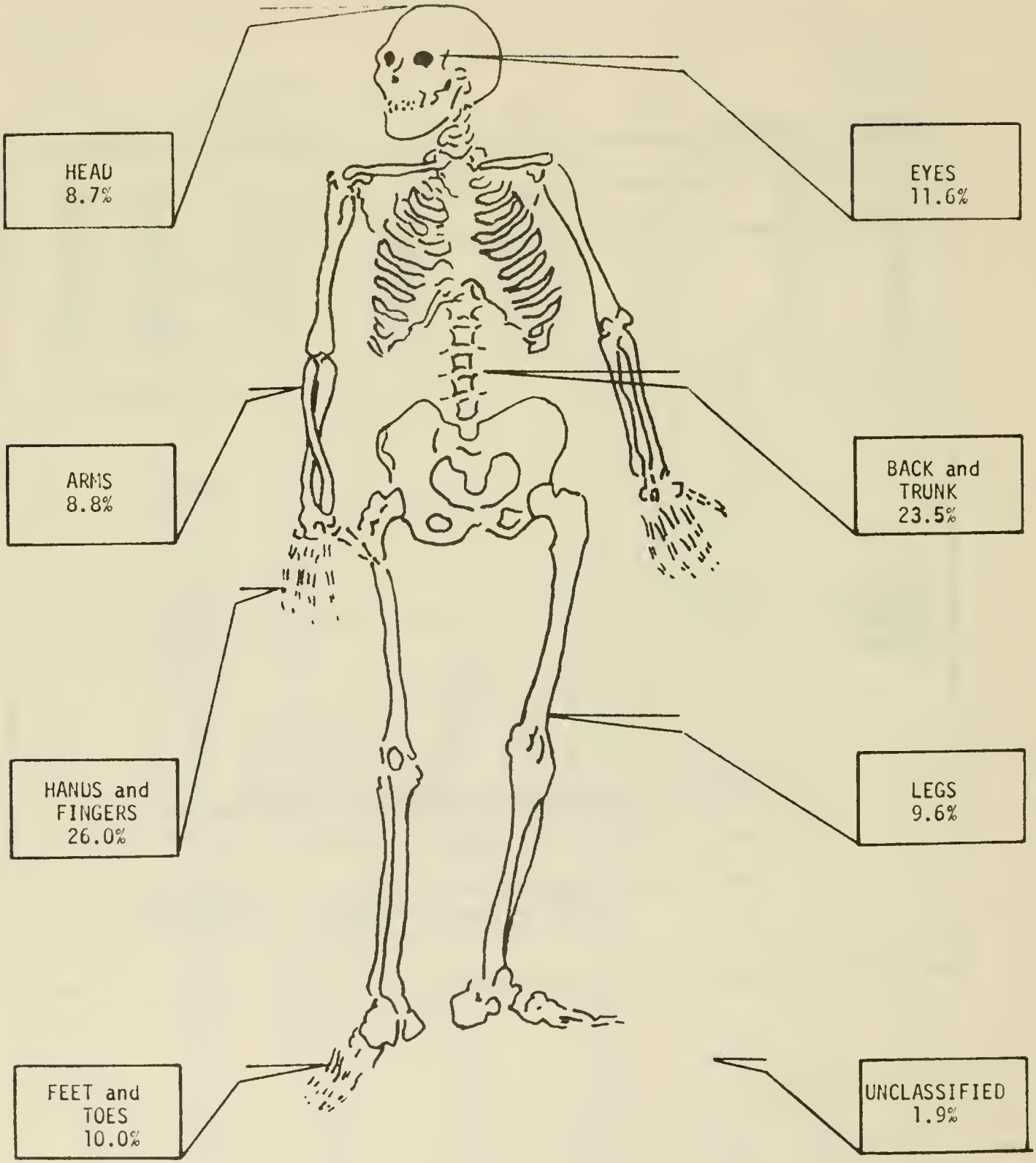


Table 12

ACCIDENT TYPE
BY MAJOR INDUSTRY

ALL INDUSTRIES
July 1, 1968 - June 30, 1969

| ACCIDENT TYPE | PER CENT | TOTAL | AGRICULTURE AND AGRICULTURAL SERVICES | MINERAL EXTRACTION | CONTRACT CONSTRUCTION | MANUFACTURING | TRANSPORTATION, COMMUNICATIONS AND UTILITIES | TRADE | FINANCE, INSURANCE AND REAL ESTATE | SERVICE | GOVERNMENT | N.O.C. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STRUCK BY OR STRIKING AGAINST | 42.5 | 9,851 | 230 | 518 | 1,551 | 3,244 | 387 | 2,138 | 36 | 754 | 989 | 4 |
| CAUGHT IN, ON OR BETWEEN | 8.1 | 1,873 | 56 | 221 | 234 | 667 | 90 | 317 | 11 | 132 | 143 | 2 |
| FALLS AND/OR SLIPS | 17.7 | 4,112 | 163 | 179 | 655 | 1,037 | 269 | 718 | 36 | 344 | 709 | 2 |
| INVOLVING MOVING MOTOR VEHICLES | 3.3 | 754 | 27 | 60 | 115 | 181 | 96 | 115 | 1 | 32 | 125 | 2 |
| STRAIN OR OVER-EXERTION | 15.6 | 3,617 | 72 | 137 | 568 | 848 | 231 | 910 | 15 | 328 | 507 | 1 |
| CONTACT WITH TEMPERATURE EXTREMES | 3.3 | 775 | 14 | 40 | 131 | 193 | 20 | 210 | 4 | 95 | 68 | - |
| INHALATION, ABSORPTION, SWALLOWING | 2.2 | 521 | 6 | 27 | 143 | 141 | 24 | 81 | 1 | 53 | 45 | - |
| CONTACT WITH ELECTRICAL CURRENT | .3 | 72 | - | 4 | 15 | 21 | 5 | 12 | - | 5 | 10 | - |
| EXPLOSION, FLASH-BACK, ETC. | .5 | 123 | 2 | 22 | 12 | 20 | 4 | 45 | 3 | 4 | 11 | - |
| FOREIGN BODY IN EYE | 4.5 | 1,039 | 29 | 44 | 253 | 388 | 42 | 176 | 1 | 42 | 61 | 3 |
| HEART ATTACK, HEART DISEASE, OR STRAIN | .1 | 22 | 1 | 3 | 1 | 1 | 1 | 3 | 1 | 1 | 10 | - |
| OTHER AND NOT STATED | 1.9 | 436 | 28 | 20 | 64 | 68 | 39 | 66 | 5 | 44 | 83 | 19 |
| TOTAL | 100.0 | 23,195 | 628 | 1,275 | 3,742 | 6,809 | 1,208 | 4,791 | 114 | 1,834 | 2,761 | 33 |
| PER CENT | | 100.0 | 2.7 | 5.5 | 16.1 | 29.4 | 5.2 | 20.7 | .5 | 7.9 | 11.9 | .1 |

Table 13

AGENCY BY MAJOR INDUSTRY

ALL INDUSTRIES

July 1, 1968 -
June 30, 1969

| AGENCY | PER CENT | TOTAL | AGRICULTURE & AGRICULTURAL SERVICES | MINERAL EXTRACTION | CONTRACT CONSTRUCTION | MANUFACTURING | TRANSPORTATION, COMMUNICATIONS & UTILITIES | TRADE | FINANCE, INSURANCE, REAL ESTATE | SERVICE | GOVERNMENT | N.O.C. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MACHINES | 7.4 | 1,719 | 42 | 73 | 232 | 682 | 32 | 387 | 7 | 136 | 128 | - |
| ELEVATORS | .2 | 38 | - | 1 | 2 | 6 | - | 12 | 1 | 13 | 3 | - |
| HOISTING APPARATUS | 2.2 | 504 | 2 | 273 | 61 | 88 | 20 | 37 | 3 | 10 | 10 | - |
| CONVEYORS | .6 | 143 | 8 | 3 | 10 | 103 | - | 18 | - | - | 1 | - |
| VEHICLES | 7.4 | 1,719 | 49 | 88 | 230 | 373 | 198 | 432 | 4 | 98 | 245 | 2 |
| HAND TOOLS | 18.7 | 4,333 | 93 | 165 | 1,062 | 1,154 | 185 | 996 | 8 | 323 | 344 | 3 |
| CHEMICALS, HOT OR INJURIOUS SUBSTANCES & DUSTS | 5.9 | 1,360 | 14 | 69 | 288 | 413 | 52 | 298 | 3 | 113 | 108 | 2 |
| WORKING SURFACES | 16.9 | 3,911 | 98 | 178 | 616 | 909 | 265 | 758 | 38 | 327 | 721 | 1 |
| LADDERS | 1.4 | 334 | 8 | 16 | 108 | 64 | 23 | 50 | 1 | 21 | 42 | 1 |
| CONTAINERS | 3.9 | 908 | 23 | 14 | 49 | 181 | 70 | 342 | 3 | 86 | 139 | 1 |
| TREES, LOGS, LUMBER | 8.3 | 1,926 | 14 | 30 | 159 | 1,579 | 18 | 60 | 1 | 22 | 42 | 1 |
| BOILERS, PRESSURE VESSELS | .3 | 79 | 1 | 8 | 23 | 13 | 5 | 17 | 1 | 6 | 5 | - |
| PUMPS, PRIME-MOVERS | .4 | 95 | 2 | 19 | 20 | 13 | 3 | 24 | - | 2 | 12 | - |
| MECHANICAL POWER TRANSMISSION APPARATUS | .3 | 63 | 2 | 7 | 4 | 38 | 1 | 5 | - | 1 | 5 | - |
| ELECTRICAL APPARATUS | .6 | 131 | - | 9 | 29 | 37 | 14 | 21 | - | 8 | 12 | 1 |
| FLYING PARTICLES, UNASSIGNED | 3.0 | 696 | 19 | 28 | 168 | 237 | 31 | 136 | 2 | 33 | 41 | 1 |
| ANIMALS | 1.4 | 321 | 139 | 1 | 8 | 25 | 32 | 23 | 1 | 35 | 57 | - |
| MOTION OR PRESSURE | 3.4 | 779 | 12 | 23 | 118 | 195 | 55 | 210 | 5 | 60 | 101 | - |
| ENVIRONMENTAL CONDITIONS | .3 | 59 | 9 | 7 | 6 | 11 | 5 | 7 | 2 | 3 | 9 | - |
| MISCELLANEOUS AGENCIES | 17.4 | 4,025 | 93 | 257 | 543 | 680 | 198 | 952 | 33 | 537 | 731 | 1 |
| UNCLASSIFIED, INSUFFICIENT DATA | .2 | 52 | - | 6 | 6 | 8 | 1 | 6 | 1 | - | 5 | 19 |
| TOTAL | 100.0 | 23,195 | 628 | 1,275 | 3,742 | 6,809 | 1,208 | 4,791 | 114 | 1,834 | 2,761 | 33 |
| PER CENT | | 100.0 | 2.7 | 5.5 | 16.1 | 29.4 | 5.2 | 20.7 | .5 | 7.9 | 11.9 | .1 |

Table 14

NATURE OF INJURY
BY MAJOR INDUSTRY

ALL INDUSTRIES

July 1, 1968 - June 30, 1969

| NATURE OF INJURY | PER CENT | TOTAL | AGRICULTURE & AGRICULTURAL SERVICES | MINERAL EXTRACTION | CONTRACT CONSTRUCTION | MANUFACTURING | TRANSPORTATION, COMMUNICATIONS & UTILITIES | TRADE | FINANCE, INSURANCE, REAL ESTATE | SERVICE | GOVERNMENT | N.O.C. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AMPUTATION, LOSS OF, LOSS OF USE OF | .6 | 137 | 7 | 20 | 18 | 48 | 7 | 27 | 1 | 3 | 6 | - |
| BURNS OR SCALDS | 4.4 | 1,020 | 11 | 66 | 164 | 260 | 33 | 263 | 4 | 127 | 90 | 2 |
| CUTS, LACERATIONS, PUNCTURES, ETC. | 25.2 | 5,840 | 158 | 243 | 833 | 1,819 | 240 | 1,458 | 23 | 472 | 591 | 3 |
| STRAINS, SPRAINS, DISLOCATIONS | 25.9 | 6,018 | 150 | 263 | 977 | 1,544 | 398 | 1,336 | 30 | 475 | 840 | 5 |
| CRUSHING INJURIES | 1.4 | 335 | 9 | 43 | 47 | 129 | 13 | 52 | 1 | 13 | 27 | 1 |
| FRACTURES | 7.3 | 1,696 | 79 | 188 | 285 | 493 | 99 | 254 | 11 | 108 | 176 | 3 |
| HERNIA | 1.0 | 228 | 4 | 11 | 25 | 54 | 17 | 66 | 4 | 13 | 34 | - |
| INDUSTRIAL DISEASE | 1.1 | 247 | 11 | 10 | 96 | 54 | 10 | 27 | 1 | 20 | 18 | - |
| BRUISES & CONTUSIONS | 16.6 | 3,854 | 87 | 244 | 587 | 1,302 | 197 | 619 | 23 | 277 | 514 | 4 |
| HEART DISEASE, STRAIN, STROKE, CEREBRAL HEMORRHAGE, ETC. | .1 | 31 | 2 | 4 | 3 | 1 | 1 | 3 | 1 | 1 | 15 | - |
| FOREIGN BODY IN EYE | 8.0 | 1,863 | 40 | 76 | 452 | 653 | 71 | 351 | 4 | 119 | 97 | - |
| OTHER | 1.8 | 414 | 25 | 21 | 59 | 104 | 30 | 80 | 4 | 33 | 57 | 1 |
| NOT STATED | 6.5 | 1,512 | 45 | 86 | 196 | 348 | 92 | 255 | 7 | 173 | 296 | 14 |
| TOTAL | 100.0 | 23,195 | 628 | 1,275 | 3,742 | 6,809 | 1,208 | 4,791 | 114 | 1,834 | 2,761 | 33 |
| PER CENT | | 100.0 | 2.7 | 5.5 | 16.1 | 29.4 | 5.2 | 20.7 | .5 | 7.9 | 11.9 | .1 |

Table 15

BODY LOCATION
BY MAJOR INDUSTRY -
ALL INDUSTRIES

July 1, 1968 -
June 30, 1969

| | PER CENT | TOTAL | AGRICULTURE & AGRICULTURAL SERVICES | MINERAL EXTRACTION | CONTRACT CONSTRUCTION | MANUFACTURING | TRANSPORTATION, COMMUNICATIONS & UTILITIES | TRADE | FINANCE, INSURANCE & REAL ESTATE | SERVICE | GOVERNMENT | N.O.C. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EYES | 11.6 | 2,691 | 57 | 132 | 636 | 919 | 112 | 497 | 7 | 171 | 157 | 3 |
| HEAD, FACE & NECK | 8.7 | 2,020 | 66 | 138 | 327 | 580 | 131 | 365 | 11 | 131 | 270 | 1 |
| BACK & SPINE | 16.3 | 3,774 | 98 | 155 | 608 | 893 | 266 | 895 | 17 | 319 | 523 | - |
| TRUNK | 7.2 | 1,666 | 66 | 100 | 253 | 453 | 97 | 278 | 13 | 123 | 280 | 3 |
| ARMS | 8.8 | 2,034 | 50 | 120 | 315 | 597 | 109 | 388 | 8 | 154 | 292 | 1 |
| HANDS & WRISTS | 9.7 | 2,251 | 53 | 119 | 282 | 738 | 89 | 512 | 8 | 195 | 252 | 3 |
| FINGERS | 16.3 | 3,782 | 78 | 223 | 491 | 1,112 | 130 | 1,014 | 22 | 345 | 363 | 4 |
| LEGS | 9.6 | 2,217 | 81 | 105 | 315 | 755 | 111 | 342 | 8 | 177 | 322 | 1 |
| FEET & ANKLES | 8.0 | 1,858 | 53 | 126 | 324 | 541 | 101 | 346 | 11 | 146 | 208 | 2 |
| TOES | 2.0 | 462 | 12 | 28 | 61 | 137 | 23 | 99 | 3 | 47 | 51 | 1 |
| BODY N.O.C. OR NOT STATED | 1.9 | 440 | 14 | 29 | 130 | 84 | 39 | 55 | 6 | 26 | 43 | 14 |
| TOTAL | 100.0 | 23,195 | 628 | 1,275 | 3,742 | 6,809 | 1,208 | 4,791 | 114 | 1,834 | 2,761 | 33 |
| PER CENT | | 100.0 | 2.7 | 5.5 | 16.1 | 29.4 | 5.2 | 20.7 | .5 | 7.9 | 11.9 | .1 |

Table 16

NATURE OF INJURY BY BODY LOCATION

ALL INDUSTRIES

July 1, 1968 - June 30, 1969

| NATURE OF INJURY | PER CENT | TOTAL | EYES | HEAD, FACE & NECK | BACK & SPINE | TRUNK | ARMS | HANDS & WRISTS | FINGERS | LEGS | FEET & ANKLES | TOES | BODY N.O.C. OR NOT STATED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AMPUTATION, LOSS OF, LOSS OF USE OF | .6 | 137 | 3 | 38 | - | - | 2 | 1 | 88 | - | 1 | 3 | 1 |
| BURNS AND SCALDS | 4.4 | 1,020 | 333 | 125 | 4 | 27 | 123 | 175 | 74 | 67 | 66 | 2 | 24 |
| CUTS, LACERATIONS, PUNCTURES, ETC. | 25.2 | 5,840 | 302 | 814 | 19 | 64 | 417 | 1,007 | 2,272 | 564 | 325 | 39 | 17 |
| STRAINS, SPRAINS, DISLOCATIONS | 25.9 | 6,018 | - | 320 | 3,095 | 315 | 641 | 327 | 175 | 458 | 667 | 9 | 11 |
| CRUSHING INJURIES | 1.4 | 335 | - | 3 | - | 7 | 6 | 25 | 236 | 6 | 16 | 28 | 8 |
| FRACTURES | 7.3 | 1,696 | - | 161 | 49 | 272 | 124 | 172 | 355 | 147 | 213 | 184 | 19 |
| HERNIA | 1.0 | 228 | - | - | - | 211 | - | - | - | - | - | - | 17 |
| INDUSTRIAL DISEASE | 1.1 | 247 | 7 | 14 | 3 | 32 | 11 | 50 | 19 | 6 | 10 | 10 | 85 |
| BRUISES & CONTUSIONS | 16.6 | 3,854 | 72 | 282 | 243 | 462 | 534 | 393 | 465 | 721 | 458 | 156 | 68 |
| HEART DISEASE, STRAIN, STROKE, CEREBRAL HEMHORRHAGE, ETC. | .1 | 31 | - | 2 | - | 25 | - | - | - | - | - | - | 4 |
| FOREIGN BODY IN EYE | 8.0 | 1,863 | 1,861 | - | - | 1 | - | - | - | - | - | - | 1 |
| OTHER | 1.8 | 414 | 24 | 95 | 6 | 77 | 33 | 17 | 8 | 86 | 13 | 1 | 54 |
| NOT STATED | 6.5 | 1,512 | 89 | 166 | 355 | 173 | 143 | 84 | 90 | 162 | 89 | 30 | 131 |
| TOTAL | 100.0 | 23,195 | 2,691 | 2,020 | 3,774 | 1,666 | 2,034 | 2,251 | 3,782 | 2,217 | 1,858 | 462 | 440 |
| PER CENT | | 100.0 | 11.6 | 8.7 | 16.3 | 7.2 | 8.8 | 9.7 | 16.3 | 9.6 | 8.0 | 2.0 | 1.9 |

Table 17

AGENCY BY
ACCIDENT TYPE

ALL INDUSTRIES
July 1, 1968 - June 30, 1969

| AGENCY | PER CENT | TOTAL | STRUCK BY OR STRIKING AGAINST | CAUGHT IN, ON OR BETWEEN | SLIPS AND FALLS | ACCIDENTS INVOLVING MOVING VEHICLES | STRAIN OR OVER-EXERTION | CONTACT WITH TEMPERATURE EXTREMES | INHALATION, ABSORPTION OR SWALLOWING | CONTACT WITH ELECTRIC CURRENT | EXPLOSION, FLASH-BACK, ETC. | FOREIGN BODY IN EYE | OTHER, NOT STATED OR CLASSIFIED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MACHINES | 7.4 | 1,719 | 985 | 429 | 16 | 1 | 130 | 147 | - | 2 | - | 7 | 2 |
| ELEVATORS | .2 | 38 | 11 | 16 | 8 | - | 2 | - | - | - | - | - | 1 |
| HOISTING APPARATUS | 2.2 | 504 | 266 | 180 | 17 | - | 39 | - | - | 2 | - | - | - |
| CONVEYORS | .6 | 143 | 40 | 77 | 18 | - | 7 | - | - | - | - | - | 1 |
| VEHICLES | 7.4 | 1,719 | 549 | 227 | 33 | 742 | 151 | 3 | - | 1 | 3 | - | 10 |
| HAND TOOLS | 18.7 | 4,333 | 3,575 | 206 | 35 | - | 373 | 95 | 3 | 3 | 3 | 34 | 6 |
| CHEMICALS, HOT OR INJURIOUS SUBSTANCES | 5.9 | 1,360 | 57 | - | - | - | 34 | 414 | 512 | - | 25 | 313 | 5 |
| WORKING SURFACES | 16.9 | 3,911 | 44 | 7 | 3,451 | - | 402 | - | - | - | 1 | - | 6 |
| LADDERS | 1.4 | 334 | 30 | 9 | 277 | - | 15 | - | - | - | - | - | 3 |
| CONTAINERS | 3.9 | 908 | 362 | 66 | 8 | - | 459 | 6 | - | - | 7 | - | - |
| TREES, LOGS, LUMBER | 8.3 | 1,926 | 1,403 | 173 | 96 | 1 | 245 | - | 3 | - | - | 5 | - |
| BOILERS, PRESSURE VESSELS | .3 | 79 | 27 | 13 | - | - | 19 | - | - | - | 20 | - | - |
| PUMPS, PRIME-MOVERS | .4 | 95 | 40 | 35 | 1 | - | 16 | 2 | - | 1 | - | - | - |
| MECHANICAL POWER TRANSMISSION APPARATUS | .3 | 63 | 23 | 38 | 1 | - | 1 | - | - | - | - | - | - |
| ELECTRICAL APPARATUS | .6 | 131 | 34 | 8 | 1 | - | 19 | 9 | - | 55 | 5 | - | - |
| FLYING PARTICALS, UNASSIGNED | 3.0 | 696 | 16 | - | - | - | - | - | - | - | 2 | 668 | 10 |
| ANIMALS | 1.4 | 321 | 115 | 9 | 70 | - | 6 | - | - | 1 | - | 1 | 119 |
| MOTION OR PRESSURE | 3.4 | 779 | - | - | 12 | 7 | 751 | - | - | 1 | - | - | 8 |
| ENVIRONMENTAL CONDITIONS | .3 | 59 | - | - | - | - | - | 55 | - | 3 | - | - | 1 |
| MISCELLANEOUS AGENCIES | 17.4 | 4,025 | 2,226 | 377 | 66 | - | 942 | 44 | 3 | 3 | 57 | 11 | 256 |
| UNCLASSIFIED, INSUFFICIENT DATA | .2 | 52 | 8 | 3 | 2 | 3 | 6 | - | - | - | - | - | 30 |
| TOTAL | 100.00 | 23,195 | 9,851 | 1,873 | 4,112 | 754 | 3,617 | 775 | 521 | 72 | 123 | 1,039 | 458 |
| PER CENT | | 100.0 | 42.5 | 8.1 | 17.7 | 3.3 | 15.6 | 3.3 | 2.2 | .3 | .5 | 4.5 | 2.0 |

Table 18

SEX AND MARITAL STATUS
BY AGE GROUP
ALL INDUSTRIES

July 1, 1968 - June 30, 1969

| Age Group | Male | | | | Female | | | | TOTAL Both Sexes | Per Cent of Grand Total |
|---|---|---|---|---|---|---|---|---|---|---|
| | Total | Single | Married | Status Unknown | Total | Single | Married | Status Unknown | | |
| Under 14 | 20 | 10 | 5 | 5 | 1 | 1 | - | - | 21 | .1 |
| 14-15 | 24 | 22 | - | 2 | 8 | 8 | - | - | 32 | .1 |
| 16-17 | 306 | 284 | 4 | 18 | 86 | 83 | 1 | 2 | 392 | 1.7 |
| 18-19 | 1,053 | 866 | 137 | 50 | 230 | 183 | 42 | 5 | 1,283 | 5.5 |
| 20-24 | 2,973 | 1,284 | 1,537 | 147 | 381 | 201 | 167 | 13 | 3,354 | 14.5 |
| 25-29 | 2,936 | 497 | 2,301 | 138 | 213 | 52 | 158 | 3 | 3,149 | 13.6 |
| 30-34 | 2,345 | 212 | 2,028 | 105 | 214 | 33 | 178 | 3 | 2,559 | 11.0 |
| 35-39 | 2,067 | 181 | 1,786 | 100 | 263 | 41 | 214 | 8 | 2,330 | 10.0 |
| 40-44 | 2,016 | 182 | 1,759 | 75 | 262 | 52 | 199 | 11 | 2,278 | 9.8 |
| 45-49 | 1,691 | 162 | 1,451 | 78 | 306 | 59 | 238 | 9 | 1,997 | 8.6 |
| 50-54 | 1,446 | 148 | 1,248 | 50 | 345 | 89 | 246 | 10 | 1,791 | 7.7 |
| 55-59 | 1,146 | 146 | 977 | 23 | 279 | 93 | 177 | 9 | 1,425 | 6.1 |
| 60-64 | 722 | 95 | 613 | 14 | 170 | 87 | 74 | 9 | 892 | 3.8 |
| 65-69 | 200 | 30 | 156 | 14 | 42 | 29 | 12 | 1 | 242 | 1.0 |
| 70-74 | 48 | 11 | 36 | 1 | 12 | 10 | 2 | - | 60 | .3 |
| 75 & over | 28 | 8 | 18 | 2 | 9 | 8 | 1 | - | 37 | .2 |
| Age not reported | 1,189 | 208 | 708 | 273 | 164 | 41 | 84 | 39 | 1,353 | 5.8 |
| TOTAL | 20,210 | 4,346 | 14,764 | 1,095 | 2,985 | 1,070 | 1,793 | 122 | 23,195 | 100.0 |
| Per Cent of Total | 87.1 | 21.5 | 73.1 | 5.4 | 12.9 | 35.8 | 60.1 | 4.1 | 100.0 | |

Median Age of Workers Injured: (Both Sexes) 36.7
Median Age of Male Workers Injured: 36.1
Median Age of Feamle Workers Injured: 41.9

Table 19

AGE AND INDUSTRY DIVISION
ALL WORK INJURIES

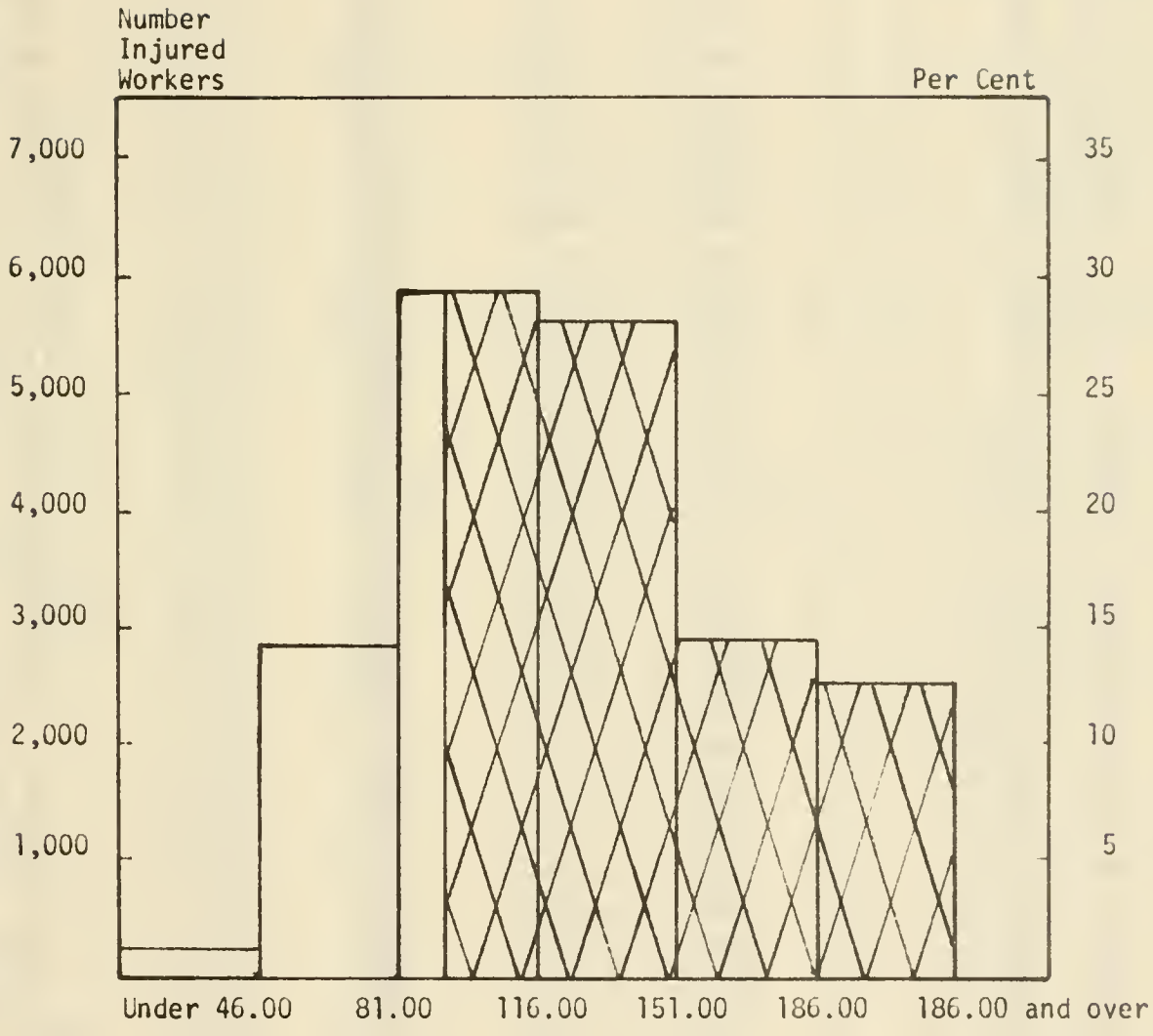
July 1, 1968 - June 30, 1969

| AGE | TOTAL | AGRICULTURE & AGRICULTURAL SERVICES | MINERAL EXTRACTION | CONTRACT CONSTRUCTION | MANUFACTURING | TRANSPORTATION, COMMUNICATION & UTILITIES | TRADE | FINANCE, INSURANCE & REAL ESTATE | SERVICE | GOVERNMENT | N.O.C. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Under 14 | 21 | 2 | - | 4 | 5 | - | 5 | 1 | 3 | 1 | - |
| 14-15 | 32 | 2 | - | 3 | - | - | 14 | - | 9 | 4 | - |
| 16-17 | 392 | 24 | 4 | 19 | 36 | 3 | 210 | 2 | 67 | 27 | - |
| 18-19 | 1,283 | 44 | 85 | 134 | 365 | 30 | 337 | 6 | 137 | 145 | - |
| 20-24 | 3,354 | 85 | 207 | 437 | 1,166 | 105 | 764 | 14 | 289 | 282 | 5 |
| 25-29 | 3,149 | 63 | 229 | 515 | 1,079 | 180 | 661 | 11 | 193 | 214 | 4 |
| 30-34 | 2,559 | 62 | 123 | 459 | 829 | 196 | 515 | 6 | 150 | 215 | 4 |
| 35-39 | 2,330 | 43 | 141 | 406 | 744 | 153 | 477 | 9 | 139 | 217 | 1 |
| 40-44 | 2,278 | 70 | 130 | 433 | 631 | 167 | 433 | 9 | 148 | 251 | 6 |
| 45-49 | 1,997 | 44 | 99 | 367 | 526 | 139 | 357 | 9 | 138 | 314 | 4 |
| 50-54 | 1,791 | 43 | 72 | 306 | 399 | 97 | 321 | 15 | 167 | 371 | - |
| 55-59 | 1,425 | 56 | 60 | 230 | 299 | 55 | 258 | 11 | 144 | 310 | 2 |
| 60-64 | 892 | 23 | 31 | 121 | 216 | 39 | 144 | 9 | 85 | 224 | - |
| 65-69 | 242 | 19 | 11 | 23 | 32 | 7 | 49 | 7 | 26 | 67 | 1 |
| 70-74 | 60 | 9 | - | 2 | 6 | - | 17 | - | 11 | 15 | - |
| 75 & over | 37 | 3 | 1 | 5 | 3 | 2 | 5 | 2 | 7 | 9 | - |
| Age not given | 1,353 | 36 | 82 | 278 | 473 | 35 | 224 | 3 | 121 | 95 | 6 |
| TOTAL | 23,195 | 628 | 1,275 | 3,742 | 6,809 | 1,208 | 4,791 | 114 | 1,834 | 2,761 | 33 |
| Median Age (years) | 36.7 | 38.7 | 34.6 | 38.7 | 34.6 | 37.9 | 33.9 | 44.4 | 37.5 | 45.4 | |

Chart 3

DISTRIBUTION OF WEEKLY WAGES
OF INJURED WORKERS

7-1-68 - 6-30-69




The shaded section of the chart represents earnings above that required to enable the injured workmen to qualify for the maximum weekly benefit of $60.00. 78.5% of all injured workers had earnings above that required to qualify for the maximum weekly benefit.

Table 20
DISTRIBUTION OF WEEKLY WAGES
OF 18,600 INJURED WORKERS*

July 1, 1968 - June 30, 1969

| WEEKLY WAGE | TOTAL | | MEN | | WOMEN | |
|---|---|---|---|---|---|---|
| | Number | Percent | Number | Percent | Number | Percent |
| Total | 18,600 | 100.0 | 16,365 | 100.0 | 2,235 | 100.0 |
| $ 30 or less | 42 | .2 | 23 | .1 | 19 | .9 |
| 31 - 35 | 33 | .2 | 18 | .1 | 15 | .7 |
| 36 - 40 | 71 | .4 | 24 | .1 | 47 | 2.1 |
| 41 - 45 | 84 | .5 | 40 | .2 | 44 | 2.0 |
| 46 - 50 | 161 | .9 | 71 | .4 | 90 | 4.0 |
| 51 - 55 | 203 | 1.1 | 78 | .5 | 125 | 5.6 |
| 56 - 60 | 343 | 1.8 | 139 | .8 | 204 | 9.1 |
| 61 - 65 | 398 | 2.1 | 181 | 1.1 | 217 | 9.7 |
| 66 - 70 | 465 | 2.5 | 261 | 1.6 | 204 | 9.1 |
| 71 - 75 | 584 | 3.1 | 280 | 1.7 | 304 | 13.6 |
| 76 - 80 | 514 | 2.8 | 345 | 2.1 | 169 | 7.6 |
| 81 - 85 | 508 | 2.7 | 361 | 2.2 | 147 | 6.6 |
| 86 - 90 | 591 | 3.2 | 480 | 2.9 | 111 | 5.0 |
| 91 - 95 | 657 | 3.5 | 596 | 3.6 | 61 | 2.7 |
| 96 - 100 | 778 | 4.2 | 716 | 4.4 | 62 | 2.8 |
| 101 - 105 | 766 | 4.1 | 698 | 4.3 | 68 | 3.0 |
| 106 - 110 | 1,093 | 5.9 | 1,039 | 6.3 | 54 | 2.4 |
| 111 - 115 | 1,105 | 5.9 | 1,046 | 6.4 | 59 | 2.6 |
| 116 - 120 | 837 | 4.5 | 816 | 5.0 | 21 | .9 |
| 121 - 125 | 800 | 4.3 | 769 | 4.7 | 31 | 1.4 |
| 126 - 130 | 805 | 4.3 | 779 | 4.8 | 26 | 1.2 |
| 131 - 135 | 589 | 3.2 | 568 | 3.5 | 21 | .9 |
| 136 - 140 | 1,008 | 5.4 | 976 | 6.0 | 32 | 1.4 |
| 141 - 145 | 518 | 2.8 | 509 | 3.1 | 9 | .4 |
| 146 - 150 | 690 | 3.7 | 674 | 4.1 | 16 | .7 |
| 151 - 155 | 503 | 2.7 | 495 | 3.0 | 8 | .4 |
| 156 - 160 | 407 | 2.2 | 396 | 2.4 | 11 | .5 |
| 161 - 165 | 396 | 2.1 | 390 | 2.4 | 6 | .3 |
| 166 - 170 | 385 | 2.1 | 376 | 2.3 | 9 | .4 |
| 171 - 175 | 384 | 1.9 | 337 | 2.1 | 11 | .5 |
| 176 - 180 | 294 | 1.6 | 292 | 1.8 | 2 | .1 |
| 181 - 185 | 327 | 1.8 | 322 | 2.0 | 5 | .2 |
| 186 - 190 | 230 | 1.2 | 229 | 1.4 | 1 | - |
| 191 - 195 | 175 | .9 | 171 | 1.0 | 4 | .2 |
| 196 - 200 | 278 | 1.5 | 274 | 1.7 | 4 | .2 |
| 201 - 205 | 158 | .8 | 157 | 1.0 | 1 | - |
| 206 - 210 | 184 | 1.0 | 182 | 1.1 | 2 | .1 |
| 211 - 215 | 177 | 1.0 | 174 | 1.1 | 3 | .1 |
| 216 & Over | 1,095 | 5.9 | 1,083 | 6.6 | 12 | .5 |
| Arithmetic Mean | $126.60 | | $133.01 | | $79.69 | |
| Median | $121.40 | | $127.30 | | $73.52 | |

*Based upon employers' reports of work injuries received by the Board. Includes all injuries reported where employees worked 30 or more hours per week, including overtime.

Table 21
WORK INJURIES AS
REPORTED BY COUNTY

ALL INDUSTRIES
July 1, 1968 -
June 30, 1969

| County | Per Cent | Total | No Lost Time | Per Cent | Lost Time | Per Cent | N.O.C. | Per Cent |
|---|---|---|---|---|---|---|---|---|
| Beaverhead | 2.4 | 273 | 185 | 67.8 | 73 | 26.7 | 15 | 5.5 |
| Big Horn | 1.3 | 296 | 196 | 66.2 | 94 | 31.8 | 6 | 2.0 |
| Blaine | .5 | 106 | 64 | 60.4 | 40 | 37.7 | 2 | 1.9 |
| Broadwater | .3 | 75 | 44 | 58.7 | 29 | 38.7 | 2 | 2.6 |
| Carbon | .6 | 148 | 100 | 67.6 | 41 | 27.7 | 7 | 4.7 |
| Carter | .1 | 30 | 11 | 36.7 | 19 | 63.3 | - | - |
| Cascade | 9.0 | 2,084 | 1,402 | 67.3 | 602 | 28.9 | 80 | 3.8 |
| Chouteau | .6 | 150 | 103 | 68.7 | 45 | 30.0 | 2 | 1.3 |
| Custer | 1.6 | 373 | 278 | 74.5 | 87 | 23.3 | 8 | 2.2 |
| Daniels | .2 | 52 | 38 | 73.1 | 12 | 23.1 | 2 | 3.8 |
| Dawson | 1.8 | 419 | 296 | 70.6 | 111 | 26.5 | 12 | 2.9 |
| Deer Lodge | 1.4 | 316 | 143 | 45.3 | 150 | 47.5 | 23 | 7.2 |
| Fallon | .6 | 145 | 79 | 54.5 | 60 | 41.4 | 6 | 4.1 |
| Fergus | 1.4 | 323 | 242 | 74.9 | 75 | 23.2 | 6 | 1.9 |
| Flathead | 7.0 | 1,617 | 1,159 | 71.7 | 416 | 25.7 | 42 | 2.6 |
| Gallatin | 3.8 | 888 | 584 | 65.8 | 269 | 30.3 | 35 | 3.9 |
| Garfield | .1 | 32 | 15 | 46.9 | 17 | 53.1 | - | - |
| Glacier | 1.7 | 389 | 286 | 73.5 | 96 | 24.7 | 7 | 1.8 |
| Golden Valley | .1 | 15 | 6 | 40.0 | 7 | 46.7 | 2 | 13.3 |
| Granite | .9 | 217 | 137 | 63.1 | 77 | 35.5 | 3 | 1.4 |
| Hill | 1.6 | 380 | 268 | 70.5 | 103 | 27.1 | 9 | 2.4 |
| Jefferson | 2.5 | 591 | 502 | 84.9 | 74 | 12.5 | 15 | 2.6 |
| Judith Basin | .3 | 73 | 53 | 72.6 | 18 | 24.7 | 2 | 2.7 |
| Lake | 2.2 | 507 | 351 | 69.2 | 141 | 27.8 | 15 | 3.0 |
| Lewis and Clark | 4.2 | 983 | 664 | 67.5 | 283 | 28.8 | 36 | 3.7 |
| Liberty | .4 | 83 | 62 | 74.7 | 19 | 22.9 | 2 | 2.4 |
| Lincoln | 8.5 | 1,968 | 1,481 | 75.3 | 465 | 23.6 | 22 | 1.1 |
| Madison | .3 | 67 | 44 | 65.7 | 20 | 29.9 | 3 | 4.4 |
| McCone | .2 | 44 | 24 | 54.5 | 20 | 45.5 | - | - |
| Meagher | .5 | 110 | 57 | 51.8 | 49 | 44.5 | 4 | 3.7 |
| Mineral | .8 | 194 | 111 | 57.2 | 82 | 42.3 | 1 | .5 |
| Missoula | 10.3 | 2,386 | 1,727 | 72.4 | 610 | 25.6 | 49 | 2.0 |
| Musselshell | .3 | 67 | 29 | 43.3 | 36 | 53.7 | 2 | 3.0 |
| Park | .9 | 219 | 144 | 65.8 | 68 | 31.1 | 7 | 3.1 |
| Petroleum | .1 | 16 | 6 | 37.5 | 10 | 62.5 | - | - |
| Phillips | .3 | 62 | 39 | 62.9 | 21 | 33.9 | 2 | 3.2 |
| Pondera | .6 | 138 | 93 | 67.4 | 40 | 29.0 | 5 | 3.6 |
| Powder River | .5 | 117 | 58 | 49.6 | 53 | 45.3 | 6 | 5.1 |
| Powell | 1.3 | 310 | 209 | 67.4 | 88 | 28.4 | 13 | 4.2 |
| Prairie | .2 | 48 | 27 | 56.3 | 20 | 41.7 | 1 | 2.0 |
| Ravalli | 1.6 | 377 | 228 | 60.5 | 142 | 37.7 | 7 | 1.8 |
| Richland | 1.6 | 360 | 233 | 64.7 | 113 | 31.4 | 14 | 3.9 |
| Roosevelt | .8 | 175 | 110 | 62.9 | 61 | 34.9 | 4 | 2.2 |
| Rosebud | .6 | 149 | 93 | 62.4 | 50 | 33.6 | 6 | 4.0 |
| Sanders | 1.9 | 434 | 270 | 62.2 | 155 | 35.7 | 9 | 2.1 |
| Sheridan | .4 | 90 | 54 | 60.0 | 34 | 37.8 | 2 | 2.2 |
| Silver Bow | 3.4 | 787 | 450 | 57.2 | 305 | 38.8 | 32 | 4.0 |

Table 21
WORK INJURIES AS
REPORTED BY COUNTY (continued)

ALL INDUSTRIES
July 1, 1968 -
June 30, 1969

| County | Per Cent | Total | No Lost Time | Per Cent | Lost Time | Per Cent | N.O.C. | Per Cent |
|---|---|---|---|---|---|---|---|---|
| Stillwater | .7 | 157 | 110 | 70.1 | 44 | 28.0 | 3 | 1.9 |
| Sweet Grass | .2 | 55 | 31 | 56.4 | 23 | 41.8 | 1 | 1.8 |
| Teton | .5 | 105 | 68 | 64.8 | 34 | 32.4 | 3 | 2.8 |
| Toole | .6 | 148 | 86 | 58.1 | 55 | 37.2 | 7 | 4.7 |
| Treasure | .1 | 16 | 11 | 68.8 | 4 | 25.0 | 1 | 6.2 |
| Valley | 1.2 | 267 | 195 | 73.0 | 60 | 22.5 | 12 | 4.5 |
| Wheatland | .4 | 85 | 67 | 78.8 | 17 | 20.0 | 1 | 1.2 |
| Wibaux | .1 | 23 | 10 | 43.5 | 13 | 56.5 | - | - |
| Yellowstone | 12.2 | 2,829 | 2,005 | 70.9 | 755 | 26.7 | 69 | 2.4 |
| Out of State | .8 | 182 | 95 | 52.2 | 80 | 44.0 | 7 | 3.8 |
| None Given | 2.8 | 645 | 393 | 60.9 | 176 | 27.1 | 76 | |
| TOTALS | 100.0 | 23,195 | 15,826 | 68.2 | 6,661 | 28.7 | 708 | 3.1 |

DEPARTMENT OF SAFETY - ANNUAL REPORT

54th YEAR

July 1, 1968 - June 30, 1969

The department of safety, operating as a part of the Montana State Industrial Accident Board, administers the Montana Safety Act under the authority of the Workmen's Compensation Act of Montana.

The following report is submitted as a summary of the various activities in the field of industrial safety.

The department conducted 276 safety meetings with an attendance of 3,831, and 5 First Aid Courses with an attendance of 62 persons. A change was made in conducting First Aid Courses to comply with a request of the American Red Cross, resulting in a decrease in the number of courses held this year.

The department also made 3,264 safety inspections during the year. There were 2,588 special contacts with employers, employees, and other persons connected with industry. A summary of work activities includes the following:

59 work orders issued

9 red tags used

1 premium rate increase initiated

658 boiler operators' licenses issued or renewed

39 progress calls

There were 52 fatal accidents investigated in the following industries:

13 in wood products industries

8 in agriculture and food production areas

9 in construction

19 in mineral extraction and related industries

3 in miscellaneous industries

Of these 52 industrial fatalities, 15 were not covered by Workmen's Compensation. These 15 fatalities occurred in the following industries:

3 in wood products industries

7 in agriculture and food production areas

2 in construction

2 in mineral extraction and related industries

1 in miscellaneous industries

There were 71 non-fatal investigations made during the year.

The safety department was active in the development and revision of safety standards for Montana.

The boiler laws were revised by a committee to include the adoption of the A.S.M.E. code (American Society of Mechanical Engineers). The effective date of the boiler Rules and Regulations (FIRED PRESSURE VESSELS RULES AND REGULATIONS) was July 1, 1969.

A code for the installation and maintenance of electric supply and communication lines is being prepared by a special committee.

The recommendations of the Montana Safety Commission were presented to the 1969 Legislative Assembly, and various sections of the safety provisions of the Workmen's Compensation Act were changed.

## CODE AND TRAINING SECTION

The tools of safety are the three E's - education, engineering and enforcement. Of these, education is probably the most difficult to promulgate, since most individuals truly believe that they are safety conscious and resent being taught the basics of a safety program. The code and training section is responsible for developing the education of employer and employee through a series of training programs.

In the past, our field representatives have used this procedure to a degree, each in his own way. In the last year, they performed the following duties as training aids to the public, management, and interested labor organizations: conducted 276 safety meetings for groups with an attendance of 3,831; of these, 11 were six-hour formal training courses for individual businesses and unions, with a total attendance of 203. In these meetings, 49 safety films were used and viewed by 1,314 persons. We conducted five First Aid Courses and issued 62 First Aid cards. This is a considerable drop from last year because we have turned most First Aid Courses over to local instructors throughout the state at the request of the American Red Cross.

The Montana Safety Commission recommended revision of the "Laws of Montana" relating to industrial safety. The 1969 Legislature acted upon their recommendations, including changing the title to the "Montana Safety Act". Many of the basic laws remained the same, however, there were several additions to better clarify the workings of the Safety Department. Some of these changes relating to industrial safety were as follows:

The Board shall:

Appoint a Safety Director to carry out the provisions of the Montana Safety Act.

Fix and order such reasonable standards for the construction, repair and maintenance of places of employment and equipment as shall render them safe.

Prohibit the use of any unsafe machine, equipment or apparatus. Any person aggrieved by this action may request a formal hearing.

Enjoin any violation of any duly promulgated safety order, code or rule . . . in the case of practical difficulties any employer may consult with the Board for advice and assistance in complying with the provision of the Act or any code by written application to use other acceptable devices or methods.

A workman may complain to the Board of any violation that his employer has refused to correct. The Board shall then make an inspection of the place of employment, determine if a violation exists and initiate corrective action.

A very important addition is that we now have the authority to amend, repeal, promulgate, publish and enforce safety codes.

The Act makes it quite clear that the employer alone is held responsible for safety on the job. All discipline for violations is directed at the employer regardless of the actual violation cause, be it machinery, equipment or employees.

As directed by the Montana Safety Act, the Safety Director has created the Code and Training Section within the Safety Department. This section has the following responsibilities:

Design formal education courses in safety to be presented to industry and other interested organizations.

Develop and continue formal training for our own personnel as pertains to their duties and responsibilities.

Appoint individuals from outside the department to code committees to develop and/or update a series of safety codes for use in our state. These codes will be developed on the basis of accident experience, scope of industry and urgency of need. The first code planned is to be a general code of safety for all industries, followed by codes for particular industries such as logging, mining, boilers, construction, etc.

## BOILER SECTION

The annual report for the boiler inspectors over the past twelve months, July 1968 through June 1969, is as follows:

There were 1,661 inspections made, 511 operators' licenses issued, 147 renewals of operators' licenses, 37 work orders and one red tag issued, 44 boiler operators lapsed on their renewals, and 192 special reports were made.

There have been many changes in the inspection procedures over the past two years. A Boiler Rules Advisory Committee prepared rules and regulations for installation, inspection, repair and construction of boilers used in the state. The A.S.M.E. code has been adopted for use in the state.

Certified insurance inspectors' reports have been accepted by the state, a precedent set by other states that have adopted the A.S.M.E. Boiler and Pressure Vessel Code.

Through periodic inspections by the state boiler inspectors and the state special boiler inspectors, it is anticipated that the number of inspections of boiler installations will increase.

Meetings with owners and insurance carriers at seminars have provided information which has helped to prevent accidents, increased the knowledge of the operators relative to their particular boilers, and created a better working relationship between the owners, operators and inspectors.

Nationally, the general observation appears to be that human error in operation and maintenance is to blame for approximately one-fourth of all boiler failures.

During the past year, there have been no boiler explosions in the state of Montana, and it is the goal of this division of the department to do everything possible to maintain this record.

METAL AND NON-METAL MINE INSPECTORS REPORT
(SOUTHERN AREA)

July 1, 1968 - June 30, 1969

An unusual safety record the past fiscal year was recorded for the 251 active mining operations in the state although less than half were producing during this period. The practice of careful attention to safe working conditions is prevalent throughout the state. Several firms have made additional improvements in their working areas during the year. This desire to provide the safest possible working conditions and the greatest possible cooperation with safety personnel is worthy of the highest praise.

A strict record of inspections made of the mines and related industries reveals a number of recommendations were made to correct violations of the minimum safety standards. This past fiscal year 321 safety inspections were made and 287 inspections were for firms in mining and related industries. These included both large and small operations as well as sand and gravel installations. There were 333 personal contacts with employers, employees and labor organizations regarding safe methods of operation. There were 21 formal accident investigations made to determine accident causes, 10 correction notices were issued, 10 progress calls were made, three work orders and 8 red tags were issued.

Safety surveys are conducted, followed by an inspection of the plant. Safety meetings with employers, employees and labor organizations regarding safe methods of operation have been well received with large numbers in attendance. Future meetings are being scheduled with a great deal of enthusiasm on the part of employees.

It is the desire of this department that proposed meetings be held with officers, mine owners and operators associations throughout the state to discuss and review the major types of accidents, the number of disabling injuries, and programs which will reduce these incidents. These meetings will be the first step in setting up safety programs that we anticipate will make a definite improvement in the accident experience of the mining industry.

Several inquiries were received by the state mine inspector's office from individuals interested in mining properties, which seems indicative of a growing interest in the state's mineral potential. Several interesting new developments are now taking place in areas which could add materially to the state's total mineral production.

Information booklets pertaining to the location, status and production of mines in Montana are published yearly by the Montana Bureau of Mines and Geology. These publications are free and may be obtained from the Bureau of Mines and Geology, Room 203-B, Main Hall, Montana College of Mineral Science and Technology, Butte, Montana, 59701.

This report covers mining and related activities over the southern part of Montana stretching from the northwest tip of Mineral County to the southeastern part of Carter County, comprising a total of 24 counties in the state.

## METAL AND NON-METAL MINE INSPECTORS REPORT
## (NORTHERN AREA)

There were 90 inspections made during the year, 5 investigations, 3 progress calls, 95 personal contacts with employers and employees, one safety meeting with an attendance of 14, and three First Aid meetings with an attendance of 13.

Due to the drop in the price of silver, many small operators have curtailed operations, except for assessment work. Aluminum production has been increased by the Anaconda Company, with installation of more pot lines at Columbia Falls.

Kennecott Corporation is doing extensive exploration in Lincoln County. Personal relations with operators have been very good. When a safety problem arises, they are very cooperative in taking corrective action.

Some of the most common discrepancies encountered in our inspections are as follows:

Failure of employees to wear hard-toed boots

Lack of guards on belts and conveyors

Compressors located too close to portals

Lack of safety belts

No offsets in manways

Testing equipment that has been purchased by the Board is being used during mine inspections to determine temperatures, oxygen readings, sources of air and presence of noxious gases.

We have urged management to participate in the First Aid training programs and to encourage their employees to attend.

We have had no results so far in regard to having a meeting with Western Mine Owners and the Operators Association of Montana to discuss accident reporting, accident prevention, and state safety requirements.

This report is relative to operations in the northern half of the state, which includes 32 counties.